

## CLIMATOLOGICAL DATA FOR SEPTEMBER, 1912.

## DISTRICT NO. 8, TEXAS AND RIO GRANDE VALLEY.

BERNARD BUNNEMEYER, District Editor.

## GENERAL SUMMARY.

September was a month of extremes. In the western portion of the district it was the coldest month of that name of record, while in southwestern Texas it was one of the warmest. At many northwestern stations the low temperatures during the current month broke all previous September records. Killing frosts occurred at the higher stations in New Mexico on the 17th and were general over the northern half of that State on the 22d or 23d, which is fully two weeks earlier than usual. There were several periods with unusually high day temperatures, but the nights as a rule were cool. In the Colorado portion freezing temperatures were common at night from the 15th to the close of the month. The amount of sunshine averaged above the normal throughout the district, but the precipitation was generally deficient, except in the middle portions of the Rio Grande and Rio Pecos watersheds and in a few counties in northwestern and southeastern Texas where local excesses occurred. Droughty conditions obtained throughout the month in many localities, and water for stock and domestic use had to be hauled by wagon and train from distant places. The dry weather was favorable for picking cotton but detrimental to fall gardens in eastern Texas. Destructive local wind and hailstorms occurred in Ellis County, Tex., on the 17th and in Coleman County, Tex., on the 19th. Duststorms were numerous in the western portion of the district.

The average number of days with 0.01 inch or more of precipitation was 4 in Colorado and Texas, and 3 in New Mexico. The greatest monthly amount of precipitation in Colorado was 1 inch at Saguache; in New Mexico, 4.20 inches at Newman; and in Texas, 5.75 inches at Plainview. Less than a measurable amount of precipitation occurred at 4 stations in New Mexico and at 11 stations in Texas, while the lowest in the Colorado portion was 0.02 inch at Manassa. Excessive precipitation of 2.50 inches or more in 24 consecutive hours was reported from 5 stations in Texas, the heaviest being 3.25 inches at McGregor on the 17th.

## TEMPERATURE.

The monthly mean temperature was  $3.6^{\circ}$  below the normal in Colorado,  $3^{\circ}$  below in New Mexico, and  $1.4^{\circ}$  above in Texas. Throughout the district the weather was generally warm during the first decade and cool during the last, while the second decade was warm in the southeastern half of the district and cool in the northwestern half. The coldest nights occurred from the 20th

to 26th, while the highest day temperatures were noted on various dates. The cool wave of the 25th-26th was preceded by unusually high temperatures on the 24th. The daily range of temperature varied from  $10^{\circ}$  on the Texas coast to  $42^{\circ}$  in the extreme northern portion of the district.

The highest and lowest temperatures reported were, respectively, in Colorado  $81^{\circ}$  at Saguache on the 4th, and  $9^{\circ}$  at Hermit on the 21st; in New Mexico,  $99^{\circ}$  at San Marcial on the 8th, and  $12^{\circ}$  at Bluewater on the 22d; and in Texas,  $109^{\circ}$  at Fort McIntosh on the 9th, and  $33^{\circ}$  at Plainview and Mount Blanco on the 26th. The local monthly means ranged from  $40.8^{\circ}$  to  $53.6^{\circ}$  in Colorado; from  $49.8^{\circ}$  to  $70.6^{\circ}$  in New Mexico; and from  $67.6^{\circ}$  to  $87.7^{\circ}$  in Texas.

## PRECIPITATION.

The average monthly precipitation for the Rio Grande watershed was 0.92 inch, which is only about 50 per cent of the normal amount. Good rains occurred locally in the middle portions of the watershed, the heaviest monthly amount being 4.89 inches at Del Rio, Tex. The deficiency was most marked over a long stretch between Los Lunas and Aspen Grove Ranch, N. Mex., where the monthly amounts averaged only 0.18 inch.

The Rio Pecos watershed received about the normal amount of moisture, the average being 1.96 inches. The rainfall was very unequally distributed, but was heaviest in southern New Mexico.

The Texas watersheds had a decided and general deficiency of precipitation, the shortages ranging from 0.79 inch for the Lavaca watershed to 2.49 inches for that of the Sabine. Moderate excesses occurred over limited areas in the upper and middle portions of the Brazos drainage basin. There were also good local rains over portions of the lower coastal plains. The following are the average monthly amounts in inches and hundredths for the various Texas watersheds: Nueces, 1.67; San Antonio, 1.63; Guadalupe, 0.76; Lavaca, 1.75; Colorado, 1.90; Brazos, 1.40; Trinity, 0.85; Neches, 1.08; Sabine, 0.37; and coastal plains, 1.88.

## RIVER CONDITIONS.

The Rio Grande and Rio Pecos had sufficient water for irrigation purposes and for stock, while the Texas streams were practically at low watermark throughout the month. Slight rises occurred in the middle Brazos during the second decade, and in the lower Colorado during the last decade, but they were swift and of little benefit. The river stages reported from a number of stations were the lowest of record for September.

TABLE 1.—Climatological data for September, 1912. District No. 8, Texas and Rio Grande Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days	0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
<i>Colorado.</i>																				
Blanca.	Costilla.	7,865	3	.....	.....	.....	.....	.....	.....	0.21	0.12	T.	3	16 <sup>a</sup>	4 <sup>a</sup>	9 <sup>a</sup>	sw.	Dr. L. C. Audrain.		
Cumbres.	Conejos.	10,015	5	50.4	-3.9	78	1†	16	22	53	0.04	0.04	0	1	15	11	4	s.	Mrs. Ida M. Lively.	
Garnett.	Costilla.	7,576	19	50.4	40.8	68	19	9	21	51	0.35	0.17	1.0	3	19	5	6	w.	Chas. Speiser.	
Hermit.	Hinsdale.	9,843	5	.....	.....	.....	.....	.....	.....	.....	0.30	2.0	4	6	13	11	3	sw.	Marion Mason.	
La Veta Pass.	Costilla.	9,000	2	48.6	.....	80 <sup>a</sup>	2	13	21	55	0.02	0.02	0	1	22 <sup>a</sup>	4 <sup>a</sup>	3 <sup>a</sup>	w.	Clara M. Wright.	
Manassa.	Conejos.	7,700	6	.....	.....	.....	.....	.....	.....	.....	0.66	0.14	T.	10	19	9	2	sw.	J. B. Chapman.	
Platoro.	do.	7,675	5	.....	.....	.....	.....	.....	.....	.....	0.66	0.14	T.	10	19	9	2	sw.	Walter R. Hook.	
Saguache.	Saguache.	7,740	20	53.6	-2.6	81 <sup>b</sup>	4†	18	21	52 <sup>b</sup>	1.00	+0.35	1.00	0	1	11 <sup>b</sup>	5 <sup>b</sup>	12 <sup>b</sup>	nw.	Eugene Williams.
San Luis.	Costilla.	7,794	21	51.4	-4.2	78	2	17	21	49	0.19	-0.95	0.08	0	3	18	12	0	sw.	B. B. Albright.
Wagon Wheel Gap Experiment Station.	Mineral.	9,235	1	44.9	-3.7	70	19	18	21	43	0.27	-0.98	0.14	T.	7	19	8	3	sw.	U. S. Weather Bureau.
<i>New Mexico.</i>																				
Agricultural College.	Dona Ana.	3,863	51	68.6	-4.4	92	19	44	23†	43	0.70	-0.65	0.40	0	5	24	2	4	sw.	N. Mex. Agri. College.
Alamogordo (near).	Otero.	4,338	15	68.2	-3.9	89	3†	41	26	39	1.00	-0.26	0.77	0	3	23	3	4	sw.	Edward Le Breton.
Alamogordo.	do.	4,320	3	63.8	.....	98	14	34	21†	54	0.89	0.59	0	3	.....	.....	.....	sw.	Agent E. P. & S. W. R. R.	
Alamos Ranch.	Sandoval.	7,800	2	.....	.....	.....	.....	.....	.....	.....	0.25	0.20	0	2	27	0	3	sw.	Harold H. Brook.	
Albuquerque.	Bernalillo.	5,000	36	.....	.....	.....	.....	.....	.....	.....	0.29	-0.54	0.20	0	3	22	6	2	sw.	Pitt Ross, C. E.
Ancho.	Lincoln.	6,112	3	.....	.....	.....	.....	.....	.....	.....	0.90	0.85	0	2	.....	.....	.....	sw.	Agent E. P. & S. W. R. R.	
Anchor Mine.	Taos.	10,600	1	.....	.....	.....	.....	.....	.....	.....	0.80	0.30	0	5	9	13	8	w.	Charles H. Brigham.	
Artesia.	Eddy.	3,350	4	68.6	.....	95	2†	37	20	51	2.77	1.55	0	5	21	2	7	se.	Will Benson, C. E.	
Aspen Grove Ranch.	Rio Arriba.	9,000	3	.....	.....	.....	.....	.....	.....	.....	0.46	0.32	0	2	15	15	0	sw.	Junius D. Maupin.	
Banks.	Roosevelt.	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.07	0.87	0	2	21	9	0	w.	Aaron Hawkins.	
Bateman's Ranch.	Rio Arriba.	8,900	3	.....	.....	.....	.....	.....	.....	.....	1.68	0.64	0	5	.....	.....	.....	sw.	John W. Bateman.	
Berino.	Dona Ana.	3,788	1	.....	.....	.....	.....	.....	.....	.....	1.68	0.64	0	5	.....	.....	.....	w.	J. C. Rishabarger.	
Bluewater.	Valencia.	6,732	10	55.5	-4.0	92	6	12	22	64	T.	-1.30	T.	0	16	14	0	sw.	Bluewater Development Co.	
Boaz.	Chaves.	4,154	3	67.6	.....	94	7	36	22†	46	2.61	1.09	0	5	24	3	3	sw.	D. C. Savage.	
Capitan.	Lincoln.	6,343	3	.....	.....	.....	.....	.....	.....	.....	2.85	1.72	0	3	2	18	10	e.	Agent E. P. & S. W. R. R.	
Carlsbad.	Eddy.	3,120	17	70.2	-3.8	95	19	36	26	45	3.18	+1.79	1.09	0	9	22	2	6	se.	Agent E. P. & S. W. R. R.
Carrizozo.	Lincoln.	5,429	4	63.8	.....	84	8	40	26	36	1.61	0.60	0	4	23	6	1	sw.	U. S. Reclamation Service.	
Cerrillos (near).	Santa Fe.	5,700	10	.....	.....	.....	.....	.....	.....	.....	0.05	0.05	0	1	18	12	0	w.	Agent E. P. & S. W. R. R.	
Chama.	Rio Arriba.	7,851	14	50.2	-7.0	73	6†	19	21	44	0.59	-1.28	0.30	0	3	23	7	0	sw.	Irving C. Sweet.
Cloudcroft.	Otero.	8,650	10	56.6	+3.5	67	9	31	23	31	2.97	0.00	1.54	0	7	20	4	6	sw.	Frank C. Johnson.
Corona.	Lincoln.	6,666	3	60.4	.....	82	8†	30	22	44	0.72	0.39	0	3	20	7	3	sw.	Agent E. P. & S. W. R. R.	
Coyote.	do.	5,800	3	.....	.....	.....	.....	.....	.....	.....	0.77	0.53	0	3	24	3	3	sw.	Do.	
Cundiy.	Santa Fe.	6,889	3	.....	.....	.....	.....	.....	.....	.....	0.00	0.00	0	0	25	5	0	w.	Juan Vilij.	
Demonstration Farm.	San Miguel.	6,800	3	.....	.....	.....	.....	.....	.....	.....	0.50	0.31	0	3	.....	.....	.....	sw.	Erb & Westerman.	
Duran.	Torrance.	6,272	3	64.8	.....	88	19	42	23†	38	0.75	0.65	0	2	20	6	4	sw.	Agent E. P. & S. W. R. R.	
Escondido.	Otero.	4,014	3	.....	.....	92	3†	46	22	38	1.21	0.96	0	4	25	2	3	se.	Mrs. Ella F. McBride.	
Espanola.	Rio Arriba.	5,590	14	60.2	-4.6	87	12	24	22	53	0.03	-1.15	0.03	0	1	24	6	0	s.	George H. Van Stone.
Estancia.	Torrance.	6,140	7	.....	.....	.....	.....	.....	.....	.....	0.03	0.03	0	1	.....	.....	.....	sw.	U. S. Sanitarium.	
Fort Stanton.	Lincoln.	6,231	35	59.0	-2.4	83	7	29	22	45	2.24	+0.27	1.80	0	5	20	6	4	sw.	Peter Yocky.
Fort Sumner.	.....	3,960	4	63.2*	.....	89	2†	35†	26	44†	3.40	1.35	0	7	16	9	5	sw.	Agent E. P. & S. W. R. R.	
Gallinas.	Lincoln.	6,635	3	.....	.....	82	2	31	23	31	2.97	0.50	0	4	21	4	5	w.	Agent E. P. & S. W. R. R.	
Gallinas Planting Station.	San Miguel.	7,500	5	55.0	.....	78	2†	26	26	46	1.02	0.55	0	3	20	9	1	w.	U. S. Forest Service.	
Glorietta Ranch.	Socorro.	5,700	2	.....	.....	80	17	30	22†	40	0.53	0.86	0.43	0	4	22	6	2	se.	Charles M. Crossman.
Harveys Upper Ranch.	San Miguel.	9,400	3	52.4	.....	95	2	37	27	43	3.18	1.28	0.34	0	2	25	3	2	w.	R. B. Schoonmaker.
Hondo Reservoir.	Chaves.	3,904	3	67.3	.....	95	2	37	27	43	3.18	0.16	0.34	0	8	19	5	6	s.	U. S. Reclamation Service.
Jemez Springs.	Sandoval.	6,100	2	57.8	.....	78	7	32	23	38	0.34	0.16	0	3	20	4	6	sw.	Mrs. L. L. Shields.	
Knowles (near).	Eddy.	4,300	2	68.0	.....	93	4	35	22†	43	1.98	1.20	0	7	15	10	5	sw.	J. W. Mosley.	
Laguna.	Valencia.	5,840	7	62.7	.....	91	3	30	22	52	T.	0	0	0	0	.....	.....	.....	sw.	Gus Weiss.
Lagunita.	Guadalupe.	4,500	7	62.0	.....	88	6†	32	27	45	1.32	1.03	0	4	20	6	4	sw.	P. A. Turnbull.	
Lake Valley.	Sierra.	5,412	7	.....	.....	92	2†	37	26	44	4.15	1.89	0.82	0	2	22	7	1	sw.	Wm. P. Keil.
Lakewood (near).	Eddy.	3,170	7	68.6	.....	92	2†	37	26	44	4.15	1.56	0.55	0	7	22	0	7	se.	Mrs. Josephine K. Boyd.
Las Vegas.	San Miguel.	6,385	25	56.6	-4.1	81	4	25	22	47	2.50	+0.28	2.00	0	4	25	4	1	sw.	N. Mex. Normal Univ.
Liston.	Chaves.	5,000	2	.....	.....	80	17	30	22†	40	0.53	0.26	1.74	0	5	18	14	8	s.	H. G. Liston.
Los Lunas (near).	Valencia.	4,900	23	62.8	-3.3	88	8†	25	22	52	0.25	-1.05	0.15	0	2	11	19	0	sw.	Richard Pohl.
Magdalena.	Socorro.	6,557	7	60.2	.....	82	19	32	21†	46	0.10	0.10	0	1	23	6	1	w.	William Pender.	
Mescalero.	Otero.	6,627	1	57.0	.....	77	6†	33	22	36	2.59	1.73	0	7	20	5	5	sw.	Rev. R. H. Harper.	
Mineral Hill.	San Miguel.	7,050	7	.....	.....	90	6	48	22†	50	0.94	0.64	0	6	1	27	2	sw.	W. M. Nelson.	
Monterey.	Otero.	4,436	3	.....	.....	90	6	48	22†	50	0.92	0.67	0	4	24	3	3	sw.	Agent E. P. & S. W. R. R.	
Mountainair.	Torrance.	6,547	10	60.0	-2.4	84	1	26	25	50	1.78	+0.05	1.23	0	5	19	6	5	sw.	Miss Julia Hill.
Mountain Park.	Otero.	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.28	1.20	0	5	19	6	5	sw.	Charles E. Beasley.	
Newman.	Socorro.	3,989	3	.....	.....	80	17	34	20†	50	0.50	0.25	0	2	24	2	4	ne.	Agent E. P. & S. W. R. R.	
Noria.	Dona Ana.	4,114	3	.....	.....	98	7†	34	22	51	0.41	0.28	0	2	25	0	5	w.	Do.	
Ororgrande.	Otero.	4,171	3	.....	.....	96	8	47	22	51	1.93	0.83	0	5	17	9	4	s.	Eugene F. Jones.	
Oseura.	Lincoln.	5,016	3	.....	.....	.....	.....	.....	.....	.....	0.66	0.53	0	2	21	7	2	sw.	A. M. Hove.	
Otis.	Eddy.	3,100	3	.....	.....	.....	.....	.....	.....	.....	0.59	0.97	0	9	22	3	5	sw.	Otto Goetz.	
Otto.	Santa Fe.	6,200	3	.....	.....	90	7	34	20†	50	0.03	0.0								

TABLE 1.—Climatological data for September, 1912. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>New Mexico—Contd.</i>																					
Tres Piedras.	Taos.	8,076	9	50.5	.....	76	1†	18	21	50	0.33	— 0.77	0.13	0	3	24	1	5	sw.	U. S. Forest Service.	
Truchas.	Rio Arriba.	7,935	3	54.4	.....	76	3	29	24	39	0.33	— 0.18	0.18	0	3	16	13	1	w.	Miss Myrtle Rendon.	
Tularosa.	Otero.	4,436	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Irby L. Fairless.		
Vaughn.	Guadalupe.	5,952	3	.....	.....	86	8	40	22†	.....	1.73	— 1.38	0	5	20	4	6	ne.	Agent E. P. & S. W. R. R.		
Virgilsyria.	Taos.	7,500	2	53.8	.....	76	7	22	20	48	0.16	— 0.13	0	3	22	8	0	sw.	Dr. I. N. Woodman.		
Winsors.	San Miguel.	8,200	16	49.8	— 1.7	76	8†	18	22	48	0.30	— 1.05	0.30	0	1	18	12	0	sw.	James F. Metty.	
<i>Texas.</i>																					
Abilene.	Taylor.	1,738	27	75.2	+ 1.0	98	24	40	26	34	0.18	— 2.96	0.15	0	3	12	13	5	s.	U. S. Weather Bureau.	
Albany.	Shackelford.	1,429	18	71.2°	.....	101	24	35	26	47	0.00	— 2.69	0.00	0	0	13°	1°	1°	.....	N. L. Bartholomew.	
Alice.	Jim Wells.	209	1	82.8	.....	102	11†	59	23	36	3.78	— 1.38	0	4	22	4	4	se.	R. M. Boerum.		
Alpine.	Brewster.	4,482	2	.....	.....	.....	.....	.....	.....	.....	3.92	— 1.65	0	6	20	0	10	s.	H. B. Cowles.		
Alvin.	Brazoria.	49	14	78.9	.....	94	5†	58	22	32	1.73	— 3.03	0.70	0	4	13	3	14	n.	Alvin Jap. Nursery.	
Anahuac.	Chambers.	23	3	.....	.....	.....	.....	.....	.....	.....	0.94	— 0.55	0	3	1	1	1	.....	Lone Star Canal Co.		
Antelope.	Jack.	1	.....	.....	.....	.....	.....	.....	.....	.....	0.98	— 0.50	0	4	20	7	3	.....	Paul Rudolph.		
Aspermont.	Stonewall.	1	.....	.....	.....	.....	.....	.....	.....	.....	0.31	— 0.24	0	2	24	3	3	nw.	Bryant Link Co.		
Austin.	Travis.	593	56	80.1	+ 2.0	99	14	54	23	34	0.13	— 3.61	0.08	0	3	17	9	4	s.	A. Deussen.	
Ballinger.	Runnels.	1,637	16	76.6	+ 0.9	100	7†	38	27	47	0.09	— 3.24	0.00	0	0	15	8	7	s.	E. M. Eubank.	
Barstow.	Ward.	2,573	5	73.2	.....	100	4	41	26	40	2.22	— 1.20	0	0	3	20	1	9	e.	Lee F. Freeman.	
Bay City.	Matagorda.	53	2	80.9	.....	98	6†	59	23	34	2.41	— 0.71	0.15	0	7	19	5	6	n.	E. C. Quereau.	
Beaumont.	Jefferson.	29	11	81.0	+ 0.3	97	3†	61	23†	28	0.21	— 2.72	0.08	0	5	17	0	13	ne.	John Bender.	
Beeville.	Bee.	225	16	83.2	+ 2.5	102	11	58	26	34	3.10	+ 0.32	2.00	0	5	10	14	6	se.	L. E. Dickey.	
Big Springs.	Howard.	2,396	14	75.3	— 1.6	99	1	37	26†	45	1.16	— 1.31	0.36	0	7	16	10	4	s.	B. Regan.	
Blanco.	Blanco.	1,350	16	79.9	+ 3.2	106	11	45	23	44	1.09	— 2.04	0.80	0	4	21	8	1	s.	R. C. Crist.	
Boerne.	Kendall.	1,412	20	70.5	+ 0.5	106	13	42	21	48	1.73	— 1.22	1.50	0	3	7	20	3	s.	F. W. Schweppe.	
Booth.	Fort Bend.	81	11	.....	.....	.....	.....	.....	.....	.....	0.93	— 0.33	0.83	0	6	27	0	3	ne.	T. R. Booth.	
Bowie.	Montague.	1,113	17	76.6	— 1.5	104	8	39	25	39	1.38	— 1.54	0.65	0	4	13	5	12	n.	Craig Anderson.	
Brady.	McCullough.	1,500	11	.....	.....	.....	.....	.....	.....	.....	0.94	— 1.40	0.98	0	5	17	0	13	.....	D. R. Hardison.	
Brazoria.	Brazoria.	25	23	81.2	+ 3.3	100	11†	60	23	31	2.85	— 2.71	1.53	0	10	22	5	3	n.	Mrs. M. A. Stevens.	
Brazos.	Palo Pinto.	801	3	.....	.....	.....	.....	.....	.....	.....	0.93	— 0.47	0	3	17	0	3	.....	Robt. E. Boyett.		
Brenham.	Washington.	350	27	81.4	+ 2.4	101	14	58	23†	42	0.51	— 2.39	0.65	0	3	24	1	5	se.	Mrs. B. F. Sloan.	
Bridgeport.	Wise.	754	3	.....	.....	.....	.....	.....	.....	.....	0.76	— 0.56	0	2	14	11	5	.....	Claude Strange.		
Brighton.	Nueces.	12	19	84.0	+ 3.4	100	8†	61	26	35	1.05	— 1.97	0.30	0	4	26	1	3	e.	G. H. Ritter.	
Brownsville.	Cameron.	38	48	81.8	+ 1.5	97	13	63	26	30	2.35	— 3.27	0.84	0	7	12	16	2	se.	U. S. Weather Bureau.	
Brownwood.	Brown.	1,342	20	76.2	— 0.6	102	7†	42	26†	57	1.38	— 2.76	1.20	0	5	17	13	0	s.	Mrs. Pearl Smith.	
Buena Vista.	Pecos.	2,416	4	.....	.....	105	13	50	21	39	0.93	— 1.71	0.26	0	2	26	1	3	.....	W. H. Denis.	
Cameron.	Milan.	4	81.3	.....	.....	102	14	47	22	41	0.66	— 1.71	0.26	0	2	27	3	0	s.	J. E. Watts.	
Carmona.	Polk.	330	4	78.8	.....	104	12	56	26	35	1.05	— 0.50	0	4	23	2	5	se.	M. S. Spitzer.		
Carrizo Springs.	Dimmit.	4	84.1	.....	.....	104	12	50	25	34	1.95	— 2.47	0.06	0	2	10	9	11	se.	M. E. Cook.	
Claytonville.	Fisher.	2,100	17	73.0	— 2.8	98	8†	55	26	35	2.47	— 1.54	0.00	0	2	12	16	2	s.	Wm. Lanius.	
Clifton.	Bosque.	671	1	.....	.....	.....	.....	.....	.....	.....	0.67	— 0.34	0	3	15	8	7	.....	R. M. Jones.		
Coleman.	Coleman.	1,710	18	79.4	+ 4.8	107	10	44	26	47	0.83	— 2.78	0.55	0	2	7	21	2	s.	J. E. Stevens.	
Collegeport.	Matagorda.	77.6	.....	94	3†	54	23	44	26	47	0.74	— 3.21	0.27	0	7	23	4	3	.....	H. A. Clapp.	
College Station.	Brazos.	308	22	81.6	+ 2.6	102	7†	55	23	36	1.14	— 2.18	0.48	0	6	13	10	7	s.	Prof. G. S. Fraps.	
Colorado.	Mitchell.	2,066	18	76.2	+ 1.1	101	10	40	22†	46	0.06	— 2.31	0.06	0	1	19 <sup>b</sup>	2 <sup>b</sup>	1 <sup>b</sup>	s.	R. M. Webb.	
Columbia.	Brazoria.	34	23	.....	.....	.....	.....	.....	.....	.....	0.02	— 0.02	0	1	1	1	1	.....	R. B. Loggins.		
Columbus.	Colorado.	206	8	.....	.....	.....	.....	.....	.....	.....	0.67	— 0.34	0	3	15	8	7	s.	Mrs. Sophie Bridge.		
Corpus Christi.	Nueces.	20	25	80.7	+ 1.7	93	13	61	26	34	1.33	— 2.67	1.03	0	5	21	5	4	se.	U. S. Weather Bureau.	
Corsicana.	Navarro.	445	23	78.3	+ 0.9	99	7†	51	26†	45	0.10	— 2.79	0.10	0	1	20	6	4	s.	D. H. Winn.	
Cotulla.	La Salle.	425	5	.....	.....	.....	.....	.....	.....	.....	0.02	— 0.02	0	1	1	1	1	.....	Holland Agr. Company.		
Crockett.	Houston.	350	8	81.6	.....	104	8	51	23	37	0.35	— 1.55	0.15	0	5	20	8	2	s.	A. M. Rencher.	
Cuero.	De Witt.	177	22	83.4	+ 3.7	104	7	52	23	44	1.74	— 3.21	0.27	0	7	23	4	3	.....	H. R. Frobes.	
Dallas.	Dallas.	466	23	77.5	+ 0.1	103	8	45	27	41	0.98	— 1.84	0.65	0	3	17	3	10	s.	G. A. Eisenlohr.	
Danevang.	Wharton.	145	16	81.0	+ 1.9	100	10	55	22	35	1.25	— 2.60	0.70	0	2	26	2	2	se.	H. P. Hermansen.	
Del Rio.	Val Verde.	952	6	81.6	+ 2.7	103	12	50	25	34	4.89	+ 1.95	2.93	0	7	12	15	3	se.	U. S. Weather Bureau.	
Devine.	Medina.	653	2	82.0	.....	105	10	54	26	35	5.55	— 2.70	0.00	0	3	23	4	3	se.	M. A. Keller.	
Dialville.	Cherokee.	575	8	80.2	.....	100	11	51	26	33	1.25	— 0.70	0.70	0	3	13	15	2	se.	J. M. B. McKnight.	
Dilley.	Frio.	569	2	.....	.....	.....	.....	.....	.....	.....	0.00	— 0.00	0	0	0	0	0	0	.....	John W. Miller.	
Dublin.	Erath.	1,466	16	77.1	+ 0.5	103	13	44	26	46	1.30	— 1.22	0.80	0	4	14	14	2	s.	Jno. O. Shafer.	
Durnal.	Travis.	820	23	80.8	+ 1.3	100	7†	55	26	30	0.20	— 2.25	0.18	0	1	20	8	2	s.	J. C. Edgar.	
Eagle Pass.	Maverick.	800	35	84.8	+ 3.1	106	12†	55	26	38	0.71	— 2.60	0.38	0	2	13	14	3	se.	Charles Tarver.	
Eastland.	Eastland.	1,420	5	75.6	.....	104	8	40	26†	57	2.50	— 2.00	0	3	15	10	5	se.	James A. Beard.		
Edna.	Jackson.	71	3	.....	.....	.....	.....	.....	.....	.....	0.70	— 0.60	0	5	5	0	0	.....	E. L. Faires.		
El Paso.	El Paso.	3,762	33	71.0	— 1.7	91	19	50	26	34	1.77	+ 0.32	1.24	0	7	21	4	5	e.	U. S. Weather Bureau.	
Encinal.	La Salle.	558	4	80.0	.....	103	11	51	26	34	0.40	— 0.40	0	1	21	4	5	se.	Walter Pettit.		

TABLE 1.—*Climatological data for September, 1912. District No. 8—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Texas—Continued.</i>																					
Henderson.	Rusk.	500	3								2.11	+ 0.29	0.90	0	5	15	13	2		M. Kangerga.	
Hewitt.	McLennan.	664	17								2.74	+ 0.29	2.47	0	2	2	2	0		I. H. Earle.	
Hico.	Hamilton.		1								2.29		1.03	0	3	20	7	3	n.	John A. Eakins.	
Hillsboro.	Hill.	628	9	81.9		101	7†	45	25	38	0.33		0.19	0	3	18	10	2	se.	W. G. Escott.	
Hondo.	Medina.	901	13	80.4		99	7†	52	26	39	2.15	- 1.22	1.00	0	4	17	9	4	se.	H. E. Haass.	
Houston.	Harris.	138	22	81.2	+ 2.7	98	13	61	23	25	1.27	- 3.22	0.66	0	4	14	10	6	se.	U. S. Weather Bureau.	
Huntsville.	Walker.	400	28	79.0	+ 1.4	99	14	51	23	38	0.48	- 2.41	0.48	0	1	23	0	7	s.	W. Y. Barr.	
Jayton.	Kent.		2								0.60		0.30	0	2	24	0	6	s.	Wichita Valley Ry. Co.	
Jewett.	Leon.	496	8	79.8		105	7	53	23†	44	1.48		0.35	0	6	17	4	9	s.	Earle Adkisson.	
Junction.	Kimble.	1,645	11								0.50	- 2.00	0.50	0	1					Judge John S. Durst.	
Kaufman.	Kaufman.	448	13	79.5	+ 0.5	102	8	48	26	38	T.	- 3.00	T.	0	0	19	10	1	se.	B. J. Hubbard.	
Kerrville.	Kerr.	1,650	16	78.0	+ 2.4	100	4	53	23	37	1.45	- 1.42	1.13	0	4	14	13	3	s.	Robert E. Horne.	
Killeen.	Bell.			80.4		105	1	50	23†	40	2.10		0.80	0	5	19	1	10		J. E. Root, Jr.	
Knickerbocker.	Tom Green.	2,050	8	77.2		100	7†	40	26†	39	0.73		0.30	0	4	14	10	6	se.	Jos. Tweedy.	
Kopperl.	Bosque.	576	15								1.00	- 1.79	0.50	0	3	22	4	4	s.	T. A. Johnson.	
Lagrange.	Fayette.	276	2								0.06		0.06	0	1	20	2	8	se.	August Hermes.	
Lamesa.	Dawson.	2,500	2								0.61		0.38	0	4					S. D. Austin.	
Lampasas.	Lampasas.	1,026	20	79.8	+ 3.0	102	6	50	23	36	1.23	- 1.32	0.92	0	2	22	1	7	s.	Mrs. K. I. Webber.	
La Parra.	Willacy.	38	10								4.00	+ 0.42	2.60	0	4					Jno. C. Kenedy.	
Laureles Ranch.	Nueces.	20	12								0.98	- 1.72	0.50	0	2					Matt Cody.	
Liberty.	Liberty.	33	8	79.9		99	14	57	23	33	1.16		0.66	0	3	17	9	4	n.	Mrs. Fannie Sneed.	
Llano.	Llano.	1,040	21	80.3	+ 1.3	101	7	51	23	41	2.89	+ 0.91	1.25	0	4	20	8	2	e.	E. W. Torrence.	
Llano Grande.	Hidalgo.	86	4	79.1		101	14	52	25	44	2.92		1.50	0	2					M. D. Wardlow.	
Long Lake.	Anderson.	229	7								1.10		0.70	0	2	16	7	7	s.	Geo. W. Ellis.	
Longview.	Gregg.	336	26	77.6	- 0.1	98	8	52	23†	43	0.26	- 2.63	0.12	0	3	26	0	4	ne.	C. A. Propst.	
Lubbock.	Lubbock.		1								0.73		0.64	0	6	14	5	11	se.	A. L. Paschall.	
Lufkin.	Angelina.	325	5	79.4		100	8	52	23	40	0.24		0.12	0	3	20	5	5	s.	T. A. King.	
Luling.	Caldwell.	418	23	82.2	+ 3.0	102	7	53	23	37	0.75	- 2.17	0.50	0	5	18	8	4	s.	John Carter.	
McGregor.	McLennan.	713	2								3.58		3.25	0	2	25	3	2	s.	W. H. Whitley.	
Marathon.	Collin.	612	10	76.4		100	8†	44	23†	40	0.25	- 3.71	0.16	0	4	15	12	3	se.	W. H. Killingsworth.	
Marble Falls.	Brewster.	4,043	2	88.5		89	18†	41	26†	35	2.05		0.67	0	5	12	12	6	s.	Rev. A. P. Willis.	
Marfa.	Burnet.	771	4								1.99		1.30	0	4	14	9	7	n.	R. H. Cochran.	
Presidio.																			R. K. Colquitt.		
Marshall.	Harrison.	375	11	77.0		98	10	50	23	32	0.97	- 1.42	0.85	0	2	2*	23*	5*	n.	Lee Scott.	
Matagorda.	Matagorda.	12	2								3.65		1.55	0	5	24	4	2	s.	W. E. McNabb.	
Mexia.	Limestone.	537	8	78.5		103	7	49	23†	47	0.58		0.40	0	5	10	12	8	s.	Miss Josephine Newman.	
Midland.	Midland.	5	5	75.0		98	9†	42	26	49	1.20		0.35	0	7	13	14	3	se.	J. Harvey Clark.	
Mission.	Hidalgo.	140	2	84.2		102	25	64	23†	34	2.26		1.44	0	4	10	15	5	se.	Chas. M. Kennelly.	
Mont Belvieu.	Chambers.	65	2								1.46		0.44	0	5	6*	6*	7	s.	A. R. Shearer.	
Montell.	Uvalde.										2.24		0	6	13	4	13	5		A. G. Becroft.	
Mount Blanco.	Croston.	2,750	23	68.8	- 3.2	97	24	33	26	42	3.27	+ 1.14	2.24	0	0	21	7	2	n.	Geo. W. Smith.	
Nacogdoches.	Nacogdoches.	271	13	77.0	+ 0.7	97	7†	50	23	37	T.	- 3.36	T.	0	0	10	12	8	s.	Miss Mary Hofmann.	
New Braunfels.	Comal.	720	23	80.1	+ 2.3	97	7†	58	23	39	1.34	- 1.46	1.21	0	2	16	13	1	s.	J. Giesecke.	
Palestine.	Anderson.	510	30	77.7	+ 3.0	98	8	53	26	30	1.66	- 1.54	0.83	0	5	12	14	4	ne.	U. S. Weather Bureau.	
Panter.	Hood.	1,000	23								3.38	+ 0.82	1.50	0	4					E. H. Snider.	
Pearl.	Frio.	629	2								1.43		0.68	0	7					Earnest DeVilbiss.	
Pearl.	Pierce.	102	6	80.3		100	5†	53	23	38	2.03		0.40	0	9	7	0	23	se.	R. B. Pointer.	
Plainview.	Wharton.	3,370	16	67.6	- 3.4	94	9	33	26	42	5.75	+ 3.47	1.86	0	8	13	12	5	s.	J. F. Sander.	
Port Arthur.	Jefferson.		1								1.44		0	4	17	11	2	se.	Griffing Bros. Co.		
Port Lavaca.	Calhoun.	20	11	82.4	+ 2.1	99	7†	64	23	26	0.88	- 3.20	0.88	0	1	18	8	4	n.	J. H. Bickford.	
Post.	Garza.	2,700	2								2.98		2.41	0	5	7	6	17	n.	W. T. Mann.	
Putnam.	Callahan.	1,591	1								0.00		0.00	0	0					S. M. Davis.	
Raymondville.	Cameron.		1								1.14		0.60	0	4	17	11	2	se.	C. H. Pease.	
Ricardo.	Nueces.	57	3								2.30		1.90	0	2	23	1	6	n.	P. L. Shaffer.	
Riverside.	Walker.	169	8								2.00		1.80	0	3	18	7	5	s.	Mrs. C. W. Higdon.	
Rockland.	Tyler.	136	8								2.05	- 4.02	1.40	0	4	21	7	2	s.	Mack Dunkin.	
Rockport.	Aransas.	12	11	80.8	+ 1.2	90	13	60	26	25	1.50		1.21	0	5	9	20	1	se.	Mrs. G. Grewe.	
Rossville.	Atascosa.	558	5	83.8		103	10	63	21	33	2.56		2.00	0	6	1	26	1	s.	W. F. M. Ross.	
Runge.	Karnes.	308	17								2.66		1.73	0	6	4	7	27	e.	Reiffert & Frohese.	
Sabinal.	Uvalde.	964	8	80.8		98	9†	53	26	36	2.10		0.59	0	6	7*	8	14	se.	Jas. Johnston.	
Saloado.	Bell.	2									0.69		0.47	0	3	20	3	7	s.	L. M. Crockett.	
San Angelo.	Tom Green.	1,847	21	77.51	+ 2.8	102	2	58†	19	36†	T.	- 2.71	T.	0	20†	1†	0†	0†	s.	S. C. Lee.	
San Antonio.	Bexar.	701	27	81.6	+ 4.5	100	12	57	23	32	1.47	- 1.47	0.65	0	4	20	7	3	se.	J. Allen Weaver.	
San Augustine.	San Augustine.	360	3	79.4		100	5†	53	23	39	2.15		2.00	0	4	7	12	11		Ed. Herbst.	
San Juanito.	Hidalgo.		3	85.8		104	14†	63	23	37	2.66		1.73	0	6	1	2	27	e.	F. A. Wilson.	
San Marcos.	Hays.	588	10	79.7	+ 1.1	98	14†	48	23	36	0.25	- 2.35	0.25	0	1	18	0	12	s.	J. B. McAllen.	
San Saba.	San Saba.	1,712	11	77.5	+ 0.7	99	7†	46	23	38	1.31	- 1.38	0.66	0	4	21	0	9	s.	Miss L. C. Ford.	
Santa Gertrudes.	Nueces.	12									3.25	+ 0.55	2.50	0	2					Jas. Burns.	
Sealy.	Austin.	201	1								0.24		0.07	0	4	14	8	8	s.	J. B. Wright, jr.	
Seymour.	Baylor.	1,320	6	76.2		106	6	37	26	41	1.35		0.70	0	2					O. H. Albert.	
Sutherland Springs.	Wilson.	424	2								0.50		0.54	0	5	10	10	10	se.	S. C. Lee.	
Taylor.	Williamson.	583	11	79.6	+ 2.7	99	13	53	23	35	0.06	- 2.98	0.04	0	3	13	13	4	s.	J. Allen Weaver.	
Temple.	Bell.	630	22	79.3	+ 1.5	100	14	51	26	35	0.55	- 2.07	0.35	0	3	20	8	2	s.	Frank Fitzpatrick.	
Theodore.	Winkler.		2								1.70		1.20	0	5					C. C. Zirjacks.	
Thurber.	Erath.		2								1.86		1.49	0	4					E. H. Hall.	
Tivoli.	Refugio.		2								0.85		0.45	0	2	5	24	1	se.	Arthur Bailey.	
Uvalde.	Uvalde.	937	17								3.47		1.15	0	6	22	4	4	s.	Paul C. Rudat.	
Valentine.	Jeff Davis.	4,421	6	68.3		90	18†	37	26	42	1.10	- 1.80	0.70	0	2	25	3	5	s.	L. V. Bigham.	
Valley Junction.	Robertson.	289	12								0.67	- 2.39	0.42	0	2	24	0	6	s.	U. S. Weather Bureau.	
Victoria.	Victoria.	187	13	84.5	+ 4.2	106	7	59	23†	37	2.70	+ 0.11	1.80	0							

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

\*\*Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.  
+Also on other dates.

<sup>†</sup>Also on other dates.  
T. Precipitation is less

1. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for September, 1912. District No. 8, Texas and Rio Grande Valley.*

TABLE 2.—*Daily precipitation for September, 1912. District No. 8—Continued.*

TABLE 2.—*Daily precipitation for September, 1912. District No. 8—Continued.*

Stations.	Watershed.	Day of month.																													Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
Texas—Continued.																																		
Houston	Coast	.66	.13								T.	.18				T.	T.																T.	1.27
Huntsville	Trinity											.30				T.	T.																0.48	
Jayton	Brazos	.30																															0.60	
Jewett	Trinity	.25																															1.48	
Junction	Colorado																																0.50	
Kaufman	Trinity																															T.		
Kerrville	Guadalupe																																.18	
Killeen	Brazos																																1.45	
Knickerbocker	Colorado																																0.73	
Kopperl	Brazos																																1.00	
Lagrange	Colorado																																0.06	
Lamesa	do																																.05	
Lampasas	Brazos																																1.23	
La Parra	Coast																																4.00	
Laureles Ranch	do																																.48	
Liberty	Trinity	.66	.35	T.																													1.16	
Llano	Colorado																																1.25	
Long Lake	Rio Grande																																2.82	
Longview	Trinity	T.																															2.92	
Lubbock	Brazos	.04																															0.26	
Lufkin	Neches																																.01	
Luling	Guadalupe	.15	.09																														0.24	
McGregor	Brazos																																.04	
McKinney	Trinity																																0.75	
Marathon	Rio Grande	.16	.67																														3.58	
Marble Falls	Colorado																																0.25	
Marfa	Rio Grande																																.67	
Marshall	Sabine																																1.99	
Matagorda	Coast																																0.97	
Mexia	Brazos	T.																															3.65	
Midland	Colorado	.35	T.	T.	T.	.03																										0.58		
Mission	Rio Grande																																.10	
Mont Belvieu	Coast																																1.44	
Montell	Nueces																																2.26	
Mount Blanco	Brazos	.15	.20																														3.27	
Nacogdoches	Neches	T.																															T.	
New Braunfels	Guadalupe																																1.34	
Palestine	Trinity	T.	T.																														1.60	
Panter	Brazos																																3.38	
Pearall	Nueces																																0.00	
Pierce	Colorado	.68	.18	.13																													0.00	
Plainview	Brazos																																0.00	
Port Arthur	Coast																																0.88	
Port Lavaca	do																																2.98	
Post	Brazos	.24	.04																														0.00	
Putnam	do																																1.14	
Raymondville	Coast																																2.30	
Ricardo	do																																2.60	
Riverside	Trinity	.40																															1.60	
Rockland	Neches	.10																															1.34	
Rockport	Coast	.25																															3.38	
Rossville	Nueces	.05																															2.05	
Rutledge	San Antonio																																2.56	
Sabinal	Nueces																																2.10	
Salado	Brazos																																0.69	
San Angelo	Colorado																																T.†	
San Antonio	San Antonio																																1.47	
San Augustine	Neches	T.																														2.15		
San Juanito	Coast	.03																														0.25		
San Marcos	Guadalupe																															1.41		
San Saba	Colorado																															1.31		
Santa Gertrudes	Coast																															3.25		
Sealy	Brazos	.06	T.	.06	.07																											0.24		
Seymour	do	T.																														1.35		
Snyder	Brazos	.18	.03	.02																												.54		
Somerville	Brazos																																	

## MONTHLY WEATHER REVIEW.

SEPTEMBER, 1912

TABLE 3.—Maximum and minimum temperatures for September, 1912. District No. 8, Texas and Rio Grande Valley.

Date.	Colorado.				New Mexico.										Texas.													
	Garnett.		San Luis.		Agricultural College.		Carlsbad.		Fort Stanton.		Mountain-air.		Rosedale.		Roswell.		Santa Fe.		Santa Rosa.		Abilene.		Big Springs.		Brownsville.		Corpus Christi.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	78	38	75	43	80	64	91	60	75	52	84	51	73	50	88	65	75	55	90	60	95	73	99	72	95	76	88	79
2.....	78	40	78	41	83	63	93	62	75	51	82	51	74	48	90	59	77	50	91	63	95	76	94	70	91	75	87	78
3.....	77	42	73	43	84	60	92	60	80	52	80	50	74	48	89	62	74	52	89	60	94	75	94	69	92	74	86	80
4.....	75	37	73	45	85	63	90	61	80	49	82	48	74	50	86	62	75	54	88	57	94	74	95	70	92	75	86	78
5.....	73	37	71	42	85	64	86	60	80	47	80	45	73	44	89	64	73	51	89	60	93	75	93	69	92	74	85	77
6.....	75	32	76	34	89	55	92	60	82	40	81	46	75	46	90	54	76	49	91	47	95	73	95	69	95	72	90	79
7.....	75	31	70	38	88	58	91	61	83	42	80	48	76	50	90	57	76	54	92	48	96	70	96	65	94	71	91	75
8.....	75	37	74	42	88	58	93	58	80	41	82	44	76	55	91	56	75	55	90	52	96	72	96	65	95	72	87	75
9.....	69	37	70	37	85	59	94	63	78	46	80	46	70	52	90	60	71	48	88	55	96	75	96	71	92	76	88	78
10....	73	28	71	29	84	55	91	64	80	43	82	38	75	42	86	60	73	46	87	49	96	73	96	74	94	72	87	79
11....	75	37	73	34	79	65	86	62	70	55	68	48	73	50	76	63	67	56	76	60	97	73	96	74	94	72	90	77
12....	76	41	70	41	74	61	77	63	70	54	74	52	69	48	72	63	71	53	70	58	94	70	96	76	97	75	92	75
13....	71	34	70	42	84	56	90	62	71	50	79	50	78	48	80	62	71	51	71	50	89	66	84	68	97	71	93	73
14....	67	33	72	33	85	52	91	58	74	47	78	48	75	42	84	55	72	45	64	50	91	70	96	65	95	74	90	76
15....	66	29	69	35	86	58	88	55	77	47	80	44	75	50	70	52	67	41	.....	73	59	89	61	.....	77	86	80	
16....	65	26	64	30	85	58	90	57	76	46	75	48	78	50	71	54	70	49	70	53	81	59	86	61	85	72	87	74
17....	69	24	68	24	87	56	90	56	80	46	75	45	75	45	85	53	69	45	79	49	69	69	96	71	95	69	88	76
18....	73	26	72	25	88	54	84	53	78	37	80	30	76	46	79	49	72	42	85	39	80	63	82	61	95	70	89	76
19....	76	24	76	27	92	49	95	55	79	38	82	32	80	45	90	55	75	46	88	40	96	67	99	61	93	71	89	76
20....	69	30	68	33	91	52	93	48	75	42	74	44	80	52	70	52	65	44	81	46	83	58	88	60	96	70	90	78
21....	69	18	59	17	75	53	88	49	60	42	68	33	67	38	65	48	58	35	66	47	71	52	69	45	90	72	86	74
22....	65	16	68	19	79	46	72	40	72	29	73	28	70	38	74	40	66	33	78	37	79	47	80	40	69	39	89	70
23....	69	20	65	25	85	44	87	45	74	33	77	40	75	40	85	43	71	39	82	39	85	53	93	58	94	64	84	68
24....	69	36	67	22	85	46	86	58	77	43	78	51	75	54	87	49	67	46	84	57	98	69	98	64	70	58	87	74
25....	60	20	68	20	76	50	88	44	71	38	71	26	67	38	64	43	62	32	64	40	71	45	95	73	86	72	96	72
Mns..	71.3	29.6	71.0	31.9	82.7	54.4	86.0	54.5	74.8	43.2	77.3	42.6	73.2	46.0	79.6	53.3	70.1	46.1	79.6	48.9*	87.0	63.3	89.3	61.3	92.2d	71.5	87.0	74.4
Texas.																												
Date.	Del Rio.		El Paso.		Fort McIn-		Fort Stock-		Fort Worth.		Galveston.		Hallett's-		Houston.		Lufkin.		Palestine.		Plainvi. w.		San Ant-		Seymour.		Taylor.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	98	76	78	65	106	77	94	68	96	74	89	81	98	76	89	74	94	72	72	90	63	96	75	100	76	96	73	95
1.....	98	77	83	64	106	77	90	66	95	76	88	82	98	75	88	77	95	70	94	74	92	64	97	75	102	76	95	74
2.....	95	76	88	65	105	78	96	63	95	75	88	82	96	75	92	76	95	70	93	73	87	64	95	76	99	80	94	74
3.....	96	76	89	64	102	73	95	69	93	75	87	81	100	73	90	76	96	73	93	72	88	64	95	76	98	75	94	73
4.....	98	75	86	63	104	77	95	69	95	75	89	81	98	70	94	73	94	70	96	71	91	64	96	73	98	77	96	72
5.....	98	76	89	57	102	77	87	67	97	74	94	78	98	72	96	72	96	69	96	71	90	60	97	74	106	75	97	71
6.....	98	76	89	57	102	77	87	67	97	74	94	78	98	72	96	72	96	69	96	71	90	59	100	73	98	70	98	73
7.....	102	73	87	62	106	76	93	69	99	74	90	80	99	71	95	76	98	70	98	72	97	64	102	73	97	75	97	75
8.....	100	73	90	64	104	88	95	60	98	73	90	78	98	72	95	75	100	70	98	73	92	67	102	72	97	75	95	72
9.....	100	76	87	65	109	77	97	67	96	74	89	80	98	73	93	76	98	71	96	74	90	60	101	75	96	73	95	72
10....	99	77	85	60	102	77	94	71	97	75	89	79	97	74	97	75	100	73	98	71	93	63	96	76	100	75	96	73
11....	99	76	77	60	104	76	94	63	97	77	93	79	99	73	96	75	98	71	96	74	82	61	100	75	99	70	98	75
12....	103	74	72	67	107	77	92	66	95	73	94	80	100	75	95	76	99	70	97	71	78	63	100	76	97	70	98	75
13....	101	75	75	60	106	77	91	67	97	73	93	81	100	72	98	75	98	70	97	71	85	64	100	75	91	70	99	72
14....	101	73	73	55	107	76	98	62	87	75	90	79	100	73	97	76	99	71	96	88	58	98	74	91	68	99	74	
15....	102	77	86	55	105	79	90	66	94	70	87	76	95	75	88	77	97	71	98	73	88	48	94	77	84	57	92	75
16....	97	76	89	64	104	77	91	55	84	63	87	75	93	73	92	73	91	68	90	70	62	52	86	70	80	60	90	69
17....	101	72	85	61	105	74	96	65	90	68																		